



#25

SEQUENCE LISTING

<110> Gruys, Kenneth James
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Padgett, Stephen Rogers
Stark, David Martin

<120> Methods of Optimizing Substrate Pools and Biosynthesis of Poly-beta-hydroxybutyrate-co-poly-beta-hydroxyvalerate in Bacteria and Plants

<130> 11899.0155.DVUS02 (MOBT:155--3)

<140> US 09/942,891

<141> 2001-08-30

<150> US 09/313,123

<151> 1999-05-17

<150> US 08/673,388

<151> 1996-06-28

<150> US 08/628,039

<151> 1996-04-04

<150> US 08/614,877

<151> 1996-03-13

<160> 11

<170> PatentIn version 3.1

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<212> DNA

<213> Escherichia coli

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 <213> *Alcaligenes eutrophus*

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 <213> *Alcaligenes eutrophus*

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Val Gly His Val Val Phe Gly Asn Val Ile Gln Thr Glu Pro Arg Asp
50 55 60

Met Tyr Leu Gly Arg Val Ala Ala Val Asn Gly Gly Val Thr Ile Asn
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Ala Pro Ala Leu Thr Val Asn Arg Leu Cys Gly Ser Gly Leu Gln Ala
85 90 95

Ile Val Ser Ala Ala Gln Thr Ile Leu Leu Gly Asp Thr Asp Val Ala
100 105 110

Ile Gly Gly Gly Ala Glu Ser Met Ser Arg Ala Pro Tyr Leu Ala Pro
115 120 125

Ala Ala Arg Trp Gly Ala Arg Met Gly Asp Ala Gly Leu Val Asp Met
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Met Leu Gly Ala Leu His Asp Pro Phe His Arg Ile His Met Gly Val
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Asp Glu Ala Ala Leu Glu Ser His Arg Arg Ala Ser Ala Ala Ile Lys
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Ala Gly Tyr Phe Lys Asp Gln Ile Val Pro Val Val Ser Lys Gly Arg
195 200 205

Lys Gly Asp Val Thr Phe Asp Thr Asp Glu His Val Arg His Asp Ala
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245

250

255

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275 280 285

Ala Met Gly Ile Gly Pro Val Pro Ala Thr Lys Ile Ala Leu Glu Arg
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Ala Gly Leu Gln Val Ser Asp Leu Asp Val Ile Glu Ala Asn Glu Ala
305 310 315 320

Phe Ala Ala Gln Ala Cys Ala Val Thr Lys Ala Leu Gly Leu Asp Pro
325 330 335

Ala Lys Val Asn Pro Asn Gly Ser Gly Ile Ser Leu Gly His Pro Ile
340 345 350

Gly Ala Thr Gly Ala Leu Ile Thr Val Lys Ala Leu His Glu Leu Asn
355 360 365

Arg Val Gln Gly Arg Tyr Ala Leu Val Thr Met Cys Ile Gly Gly Gly
370 375 380

Gln Gly Ile Ala Ala Ile Phe Glu Arg Ile
385 390